

## BIBLIOGRAPHICAL RECORD.

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*Corrections of errors and notices of omissions are solicited.*

**Caulfield**, Frank Butler. Food habits of the longicorns. (Can. entom., March 1881, v. 13, p. 60.)

On the habits of *pogonocherus mixtus* and *gaurotes cyanipennis*. *G: D.* (2801)

**Cement** of the tussah cocoon. (Journ. applied sci., 1 Dec. 1880, v. 11, p. 186, 12 cm.)

Major G. Coussmaker reports that chemical analysis of the cement of the cocoon of the tussah silk-worm [*attacus mylitta*] shows it to be excrementitious and that it contains acidurate of ammonia  $[C_5H_3(NH_4)N_4O_3]$ . The excrement is voided while the caterpillar is spinning the cocoon. *G: D.* (2802)

**Chambers**, Victor Tousey. On a larva of *mordella*. (Can. entom., Aug. 1881, v. 13, p. 173-175.)

Notes on the habits and food of the larvae of *mordella*. *A. K. D.* (2803)

**Clay**, Cassius M. The borer and sapsucker. (Land and home, 1 Jan. 1880, v. 1, p. 139, col. 4, 13 cm.)

Habits of [*psaperda bivittata*] and [*psphyrapicus varius*]. *B: P. M.* (2804)

**Clifford**, J. R. S. Insect lights and insect sounds. London, Wesleyan conference office, [1880], 94 [+ adv.] p., 16 × 12, t 11 × 8.5. cl. Popular work with illustrations. *A. K. D.* (2805)

**Cochineal** production on the Canaries. (New remedies, Aug. 1881, v. 10, p. 256, 4 cm.)

Statistics of cochineal exports from the Canary Islands to different countries, during 1878-1880. *G: D.* (2806)

**Codling** moth (The). (Can. entom., Aug. 1881, v. 13, p. 176.)

Brief note on *carpocapsa pomonella*. *A. K. D.* (2807)

**Cook**, Albert J. Carbolic acid as a preventive of insect ravages. (Can. entom., Sept. 1881, v. 13, p. 189-191.)

Describes a method of destroying insects by means of a mixture of carbolic acid, soft soap and water. Paper read before the subsection of entomology of the Amer. assoc. advanc. science, at its Cincinnati (1881) meeting.

*A. K. D.* (2808)

**Coquillett**, Daniel W. On the early stages of *hypena secura*, Fabr. (Can. entom., July 1881, v. 13, p. 137-138.)

Describes egg, mode of oviposition, larva (which feeds on *trifolium pratense*) and chrysalis; gives length of time in the different stages. *A. K. D.* (2809)

**Cori**, Eduard. Ueber die *apis dorsata*. (Deutscher Bienenfreund, 1 April 1881, jahrg. 17, p. 98-100.)

Contains a letter from Frank Benton in which the four kinds of honey-bees of Ceylon are mentioned and their habits described. Two species, *a. indica* and *a. dorsata*, are especially mentioned as suitable for raising for economical purposes. *G: D.* (2810)

**Cori**, Eduard. Die *apis dorsata* ist aufgefunden. (Deutscher Bienenfreund, 15 July 1881, jahrg. 17, p. 211-214.)

Quotes letter from Frank Benton announcing the capture of four colonies of *a. dorsata*. Remarks on the subject. *G: D.* (2811)

**Cultivation** of *pyrethrum* (The) and manufacture of the powder. (Amer. nat., 1881, v. 15: July, p. 569-572; Sept., p. 744-746; Oct., p. 817-819.)

General account of how to raise *pyrethrum* and to make and use the insect-powder from it. *G: D.* (2812)

**Dalla Torre**, Karl W. Alphabetisches Verzeichniss der in den Jahren 1869-1879 aufgestellten Genus-Namen der Hymenopteren. (Entom. Nachrichten, 1 Dec. 1881, jahrg. 7, p. 330-344.)

Contains alphabetic list of new generic names for hymenoptera (from 1869-1879), citation of locality where described, and family to which each genus belongs.

*G: D.* (2813)

**Dan** [*pseud.*]. Indian honey. (Journ. applied sci., June 1881, v. 12, p. 90-91, 74 cm.)

Notes on wild honey-bees of India and their honey. *G: D.* (2814)

**Day**, L. T. Notes on *sciomyzidae* with descriptions of new species. (Can. entom., May 1881, v. 13, p. 85-89.)

Notes on *tetanocera*, *sepedon* and *dryomyza*. New species described: *t. pubescens* (Wash. Terr.), *t. montana* (Wyoming), and *t. lincata* (Conn.). *G: D.* (2815)

**Deutscher Bienenfreund.** Zeitung für praktische Bienenzucht. Allgemeines Organ für deutsche Bienenwirthe und Organ des unter dem allerhöchsten Protectorat Sr. Maj. des Königs Albert stehenden bienenwirtschaftlichen Hauptvereins im Königreiche Sachsen, des bienenwirtschaftlichen Hauptvereins der Provinz Sachsen, des Herzogthums Anhalt und für Thüringen und des bienenwirtschaftlichen Hauptvereins im Grossherzogthum Sachsen-Weimar. Herausgegeben von L. Krammer. 16ter Jahrgang. 1880. Crimmitzschau, O. Grosse. [4] + 392 p., 25.5 × 17, t 20 × 13.5. M. 3.

A semimonthly journal devoted to bee-raising.  
G: D. (2816)

**Dewitz, H.** Beschreibung der Larve und Puppe von *liponeura brevirostris* Löw, Dipterenfamilie *blepharoceridae*. (Berl. entom. Zeitschr., 1881, v. 25, p. 61-66, fig. 3-16 of pl. 4.)  
Notice. (Amer. nat., July 1881, v. 15, p. 567.)

External anatomy of larva and pupa of *l. brevirostris*.  
G: D. (2817)

**Dewitz, H.** Dipterenlarven, welche wie Blutegel kriechen. (Sitzungsber. d. Gesellsch. naturf. Freunde zu Berlin, 19 July 1881, no. 7, p. 103-106, fig.)

Mode of locomotion and other peculiarities of the larvae of *leucopus puncticornis*.  
G: D. (2818)

**Dewitz, H.** Ueber die Flügelbildung bei Phryganiden und Lepidopteren. (Berl. entom. Zeitschr., 1881, v. 25, p. 53-60, pl. 3, and fig. 1-2 of pl. 4.)

Discussion of the developmental stages of the wings of phryganidae and of lepidoptera, based, in part, on studies of the development of the wings in *trichostegia varia* and in *deilephila euphorbiae*.  
G: D. (2819)

**Dewitz, Hermann.** Vergleichende Untersuchungen über Bau und Entwicklung des Stachels der Honigbiene und der Legescheide der grünen Heuschrecke. Inaugural-Dissertation . . . zu Königsberg behufs Erlangung des Doctorgrades . . . Königsberg, 1874. 30 [+ 2] p., 21 × 15, t 15 × 8.5.

Notice. (Bericht . . . der Entomologie, 1875-1876, p. 124.)

Structure and development of the sting of *apis mellifica* and of the ovipositor of *locusta viridissima*.  
G: D. (2820)

**Dodge, C. Richards.** A new hickory pruner. (Land and home, 1 Jan. 1880, v. 1, p. 139, col. 2-3, 26 cm., fig.)

Description and figure of method of injury done to branches of *carya* by a cerambycid, "perhaps an elaphidion," in Connecticut.  
B: P. M. (2821)

**Drive away mosquitoes (To).** (New remedies, Sept. 1881, v. 10, p. 285, 5 cm.)

Recipe for a pastil and for a wash to keep away *culex*.  
G: D. (2822)

**Editors' table.** (Amer. nat., April 1881, v. 15, p. 302-305.)

Discusses government aid for the protection of agriculturists, and especially the work of the U. S. entomological commission; notes on losses to the United States by insect ravages.  
G: D. (2823)

**Edwards, W. H:** *Coenonympha elko*. (Can. entom., March 1881, v. 13, p. 57-58.)

Description of a new species of diurnal lepidoptera from Nevada.  
G: D. (2824)

**Edwards, W. H:** Description of preparatory stages of *agranitis vanillae*, Linnaeus. (Can. entom., July 1880, v. 12, p. 121.)

Describes egg, stages of larva (which feeds on *passiflora*), and chrysalis.  
G: D. (2825)

**Edwards, W. H:** Description of preparatory stages of *heliconia charitonina*, Linn. (Can. entom., Aug. 1881, v. 13, p. 158-162.)

Describes egg, larva in different stages, chrysalis, and notes duration of the different stages.  
A. K. D. (2826)

**Edwards, W. H:** Description of the preparatory stages of *apatura flora*, Edw. (Can. entom., May 1881, v. 13, p. 81-85.)

Describes egg, different stages of larva (which feeds on *celtis*), and chrysalis of the above species.  
G: D. (2827)

**Edwards, W. H:** Description of the preparatory stages of *libythea bachmanni*, Kirtland. (Can. entom., Nov. 1881, v. 13, p. 226-229.)

Describes egg, larvae in different stages, chrysalis, and figures imago; length of time in passing through the different stages, times of appearance of imago and larvae.  
A. K. D. (2828)

**Edwards, W. H:** Description of the preparatory stages of *papilio palamedes*, Drury. *calchas*, Fab. (Can. entom., June 1881, v. 13, p. 119-123.)

Describes egg, different stages of larva, and chrysalis.  
G: D. (2829)

**Edwards, W. H:** Description of the preparatory stages of *terias nicippe*, Cramer. (Can. entom., April 1881, v. 13, p. 61-63.)

Describes egg, larva (which feeds on *cassia marylandica*), and chrysalis of *t. nicippe*.  
G: D. (2830)

**Fernald, C. H:** Illustrations of typical specimens of lepidoptera heterocera in the collection of the British museum. Part 4. North American tortricidae. By Lord Walsingham. London: printed by order of the trustees, 1879. 4to, pp. 84, and 17 plates. (Entom. mo. mag., Sept. 1880, v. 17, p. 95-96.)

Rev. of T. de Grey's "Illustrations" [etc.; see Rec., 1942]. Essentially the same as the review in Psyche, Oct. 1880 [Feb. 1881], v. 3, p. 128.)  
B: P. M. (2831)

**Fish, C:** Pterophoridae. (Can. entom., April 1881, v. 13, p. 70-74.)

Describes 10 new species, all from the United States.  
G: D. (2832)

**Forbes**, Stephen Alfred. The english sparrow in Illinois. (Amer. nat., May 1881, v. 15, p. 392-393.)

Relative amount of insect and of other food found in stomach of *passer domesticus*. G: D. (2833)

**French**, G: Hazen. Correspondence. (Can. entom., July 1880, v. 12, p. 140.)

Correction to W. H. Edwards' "On certain species of *saturus*" (Can. entom., June 1880, v. 12, p. 109-115) [Rec., 1817]. Suggestions in regard to D. W. Coquillet's "On describing larvae" (Can. entom., June 1880, v. 12, p. 108) [Rec., 1876]. G: D. (2834)

**French**, G: Hazen. Larvae of *ceraura occidentalis* Lint, and *c. borealis*, Bd. (Can. entom., July 1881, v. 13, p. 144-145.)

Describes larva of *c. occidentalis* and of *c. borealis*. A. K. D. (2835)

**French**, G: Hazen. Notes on some noctuid larvae. (Can. entom., Feb. 1881, v. 13, p. 23-25.)

Notes on larvae of *mamestra trifolii*, *prodenia lineatella* and *leucania pseudargyrin*. G: D. (2836)

**French**, G: Hazen. Notes on the preparatory stages of *papilio cresphontes*, Cram. (Can. entom., Sept. 1881, v. 13, p. 177-179.)

Describes egg, larva in different stages, and chrysalis; gives pupal period of fifteen specimens. A. K. D. (2837)

**Garman**, W. H. The egg-case and larva of *hydrophilus triangularis* Say. (Amer. nat., Aug. 1881, v. 15, p. 660-663, fig. 1-3.)

Describes and figures egg-case and larva of the above species; on stigmata and tracheae of the larva. G: D. (2838)

**Gauckler**, H. [Misbildung von *acronycta aceris*.] (Entom. Nachrichten, 15 July 1881, Jahrg. 7, p. 216.)

Posterior wings and abdomen deformed in *a. aceris*. G: D. (2839)

[**Gauckler**, H.] Von einem verbesserten verstellbaren Spannbrett. (Entom. Nachrichten, 15 Jan. 1881, Jahrg. 7, p. 35.)

Note on a new spreading board for lepidoptera. G: D. (2840)

**Gould & Co.** Fertilizer and insect exterminator. (Florida agriculturist, July 1881, v. 4, p. 64, 72.)

Advertisement and testimonials; this substance in solution said to destroy *cocidae*. B: P. M. (2841)

**Graber**, Vitus. Ueber den Bau und die Entstehung einiger noch wenig bekannte Stridulationsorgane der Heuschrecken und Spinnen. Mit 1 Tafel. Separatabdruck aus den Mittheilungen des naturwissenschaftl. Vereins. Jahrgang 1874. Graz, 1874. t-p. cover, t-p., 15 p., 1 pl., 22 × 15, t 17 × 10.

Mode of sonification in orthoptera, and in *steatoda bipunctata*, a spider. G: D. (2842)

DE **Grey**, T: Lord Walsingham. Illustrations of typical specimens of lepidoptera heterocera . . . Part 4 . . . [Rec., 1942].

Rev., by C: H: Fernald. (Entom. mo. mag., Sept. 1880, no. 196, v. 17, p. 95-96.)

The review is essentially the same as that furnished by the reviewer to Psyche, and published in no. 78, Oct. 1880 [Feb. 1881], v. 3, p. 128. B: P. M. (2843)

**Grote**, A: Radcliffe. [*Agrotis campestris* and *a. decolor*.] (Bull. Buffalo soc. nat. sci., Aug. 1877 [March 1881], v. 3, no. 5, p. 212.)

Points out the specific distinctions between the two species. B: P. M. (2844)

**Grote**, A: Radcliffe. [*Catocala frederici*.] (Bull. Buffalo soc. nat. sci., Aug. 1877 [March 1881], v. 3, no. 5, p. 217.)

Specimens exhibited, with specimens of other species, and its specific characters pointed out. B: P. M. (2845)

**Grote**, A: Radcliffe. List of North American *bombycias* of Hübner. (Can. entom., July 1881, v. 13, p. 151-153.)

List, with localities of capture. A. K. D. (2846)

**Grote**, A: Radcliffe and Coleman Townsend Robinson. List of the lepidoptera of North America. I. Phil. Amer. entom. soc., Sept. 1868. t-p. cover, t-p. + 16 p., 26 × 17.

List of sphingidae, arctiidae, thyridiae, zygaenidae and bombycidae of North America north of Mexico. Index of genera. B: P. M. (2847)

**Grote**, A: Radcliffe. New noctuidae, with list of the species of *perigrapha*. (Can. entom., June 1881, v. 13, p. 131-134.)

Describes 4 new species of *agrotis*, 1 of *rytmoniges*, 2 of *bomolocha*, and 1 of *deilmea*; list of the 5 species of *perigrapha* from the United States. G: D. (2848)

**Grote**, A: Radcliffe. North American noctuidae in the Zutraege. Fourth and fifth hundreds. (Can. entom., May 1881, v. 13, p. 90-92.)

Identification, as far as possible, of the species mentioned in Jacob Hübner's "Zutrage zur Sammlung exotischer Schmetterlinge" . . . [see Hagen, Bibl. entom., v. 1, p. 389]. G: D. (2849)

**Grote**, A: Radcliffe. The North American species of *mamestra*, Ochs. (Can. entom., June 1881, v. 13, p. 126-130.)

Catalog of the North American species of *mamestra* (incl. *diaphthocia*) with notes on habitat, synonymy and affinities. G: D. (2850)

**Grote**, A: Radcliffe. Note on *basilarchia*. (Can. entom., Sept. 1881, v. 13, p. 195.)

Notes on relationship of some species of *basilarchia*. A. K. D. (2851)

**Grote**, A: Radcliffe. Note on *hemaris buffalensis*. (Can. entom., Aug. 1881, v. 13, p. 175.)

Discusses validity of the species. A. K. D. (2852)

**Grote**, A: Radcliffe. Notes on *crambus*. (Can. entom., April 1881, v. 13, p. 66-67.)

Notes on 5 species and their distribution. G: D. (2853)

**Hagen**, Hermann August. Entomological notes. (Can. entom., Feb. 1881, v. 13, p. 37.)

Notes upon a species of *occidomyia* and upon larva of *papilio philenor*, both found on *aristolochia syphi*; and upon larvae of *nematus erichsoni* found on *tarix europea* [corr.]; all from Cambridge, Mass. G. D. (2854)

**Hagen**, Hermann August. Entomology. (Harvard register, Feb. 1881, v. 3, p. 75-79, 160 cm.)

Estimates of the number of species of insects; arrangement of insects in the Museum of comparative zoology at Cambridge, Mass.; some of the collections which it contains; the biological collection of insects as a specialty of this museum; describes a box to illustrate *samia promethea* in the biological collection. G. D. (2855)

**Hagen**, Hermann August. List of N. American *anthomyiidae*, examined by R. H. Meade, esq., Bradford, England. (Can. entom., March 1881, v. 13, p. 43-51.)

Abstract, entitled, "North American *anthomyiidae*." (Amer. nat., May 1881, v. 15, p. 402.)

Enumerates the species which are in the Museum of comparative zoology at Cambridge, Mass., with localities of capture and other notes. G. D. (2856)

**Hagen**, Hermann August. List of N. American *sarcophagidae*, examined by R. H. Meade, esq., Bradford, England. (Can. entom., July 1881, v. 13, p. 146-150.)

List of the *sarcophagidae* in the Museum of comparative zoology at Cambridge, Mass., with notes on synonymy and locality of capture. A. K. D. (2857)

**Hagen**, Hermann August. A new enemy of the black spruce, *abies nigra*. (Can. entom., July 1880, v. 12, p. 121.)

Larva of *tineidae*, of an undetermined species, which devours the parenchyma of the leaves of *a. nigra*. G. D. (2858)

**Hagen**, Hermann August. On *simulium*. (Can. entom., July 1881, v. 13, p. 150-151.)

Notes on larva, pupa and imago of *simulium*. A. K. D. (2859)

**Hammond**, Arthur. On the thorax of the blow-fly, *muscus vomitoria*. (Journ. proc. Linn. soc., Zool., March 1880, v. 15, p. 9-31, pl. 1-2.)

Discusses mainly the homology of the hard parts. Divides the subject into: general remarks and descriptive anatomy, considerations of analogies in divers insects, evidence from developmental change and evidence from the muscular and nervous parts. G. D. (2860)

**Heller**, Arnold. Die Schmarotzer mit besonderer Berücksichtigung der für den Menschen wichtigen. Mit 74 Holzschnitten und einer Karte in Farbendruck. (Die Naturkräfte. Eine naturwissenschaftliche Volksbibliothek, bd. 30.) München und Leipzig, R. Oldenbourg, 1880. t.-p. cover, 16+230 [+ adv.] p. il. pap., 3 M.

General popular work on parasites, including insects as parasites and parasites of insects. G. D. (2861)

**Heustis**, Caroline Eliza. Notes on a parasite of *pyraeae cardui*. (Can. entom., July 1881, v. 13, p. 143-144.)

*Ichneumon rufiventris* parasitic on the larva of *p. cardui*. A. K. D. (2862)

**Honey** crop (The). (Pacific rural press, 2 July 1881, v. 22, p. 4, col. 4, 3 cm.)

Statistics of the honey crop in San Bernardino co., Cal. B: P. M. (2863)

**Horn**, G. H.: Contributions to a knowledge of the curculionidae of the United States. (Proc. Amer. philos. soc., 19 Sept. 1873, v. 13, p. 407-469.)

Separate, [Phil.], 6 Nov. 1873. t.-p. cover, p. 407-469, 24 × 15, t. 17 × 9.7.

Rev., by G. H. Horn. (6th ann. rept. trustees Peabody acad. sci., for 1873, 1874, p. 98.)

Rev., by E. C. Rye. (Zool. rec. for 1873 . . . Van Voorst, Lond., 1875, v. 10, p. 295.)

Synoptic tables, descriptions of the genera and species of the tribes *cataenariidae* and *cossonidae*, also of the genera *ithycerus*, *otidoccephalus*, *mugdulus*, *baltanus*, *orchestes*, *rhyssomatus*, *chalcodermus* and *analecis*. S: H.

Describes 4 new genera: *metamasius*, *dryotribus*, *wollastonina* and *classopterus*. Describes over 30 new species. H: W. T. (2864)

**Horn**, G. H.: Critical notes on the species of *selenophorus* of the United States. (Proc. Amer. philos. soc., 5 Nov. 1880, v. 19, p. 178-183.)

Describes one new species, *s. breviusculus*. H: W. T. (2865)

**Horn**, G. H.: A monographic revision of the species of *cremastocheilus* of the United States. (Proc. Amer. philos. soc., 19 Dec. 1879, v. 18, p. 382-397, pl. 4, fig. 1-11.)

Describes 1 new species, *c. westwoodi*. H: W. T. (2866)

**Horn**, G. H.: A review of the species of *anisodactylus* inhabiting the United States. (Proc. Amer. philos. soc., 5 Nov. 1880, v. 19, p. 162-178.)

Describes *a. pilosus*, *a. immunis*, *a. nivalis* = 3 new species. Synonymy and bibliography given. H: W. T. (2867)

**Horn**, G. H.: Revision of the species of several genera of *meloidae* of the United States. (Proc. Amer. philos. soc., 21 Feb. 1873, v. 13, p. 88-117.)

Rev., by G. H. Horn. (6th ann. rept. trustees Peabody acad. sci., for 1873, 1874, p. 98.)

Rev., by E. C. Rye. (Zool. rec. for 1873 . . . Van Voorst, Lond., 1875, v. 10, p. 294.)

Describes the genera and species and gives synoptic tables of *macrobasis*, *epicauta*, *cantharis* and *pomphopoea*. S: H.

The following new species described: *macrobasis virgata* Lec., *epicauta sericans* Lec., *e. callosa* Lec., *e. caviceps* Lec., *e. pedalis* Lec., *e. pardalis* Lec., *e. funebris* Horn, *cantharis viridana* Lec., *c. puberula* Lec., *pomphopoea unguicularis* Lec., *p. texana* Lec. H: W. T. (2868)

**Horn**, G. H.: Revision of the species of the sub-family *bostriichidae* of the United States. (Proc. Amer. philos. soc., 19 April 1878, v. 17, p. 540-555.)

Describes genera and species, figures antenna of *tetrapirocera*. S: H.

Describes the new genus *tetrapirocera* and 16 new species, belonging to the genera *sinorylon*, *tetrapirocera*, *bostrichus*, *amphicerus*, *dinoderus* and *polycaon*.

H: W. T. (2869)